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Wu et al.

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(54) **RADIAL POWER DIVIDER/COMBINER**

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See application file for complete search history.

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ABSTRACT

A radial power divider-combiner is disclosed. The divider-combiner includes a divider and a combiner. An input signal is provided to a transmission antenna that radiates the input signal inside the divider. Within the divider, the input signal is divided into a plurality of individual signals. The individual signals are received by receiving antennas and provided to respective amplifiers. The amplifiers amplify the respective individual signals by a desired amplification factor. The amplified individual signals are provided to a plurality of transmitting antennas within the combiner. Inside the combiner, the amplified individual signals are combined to form an output signal that is received by a receiving antenna in the combiner.

16 Claims, 8 Drawing Sheets

